

FIG. 1

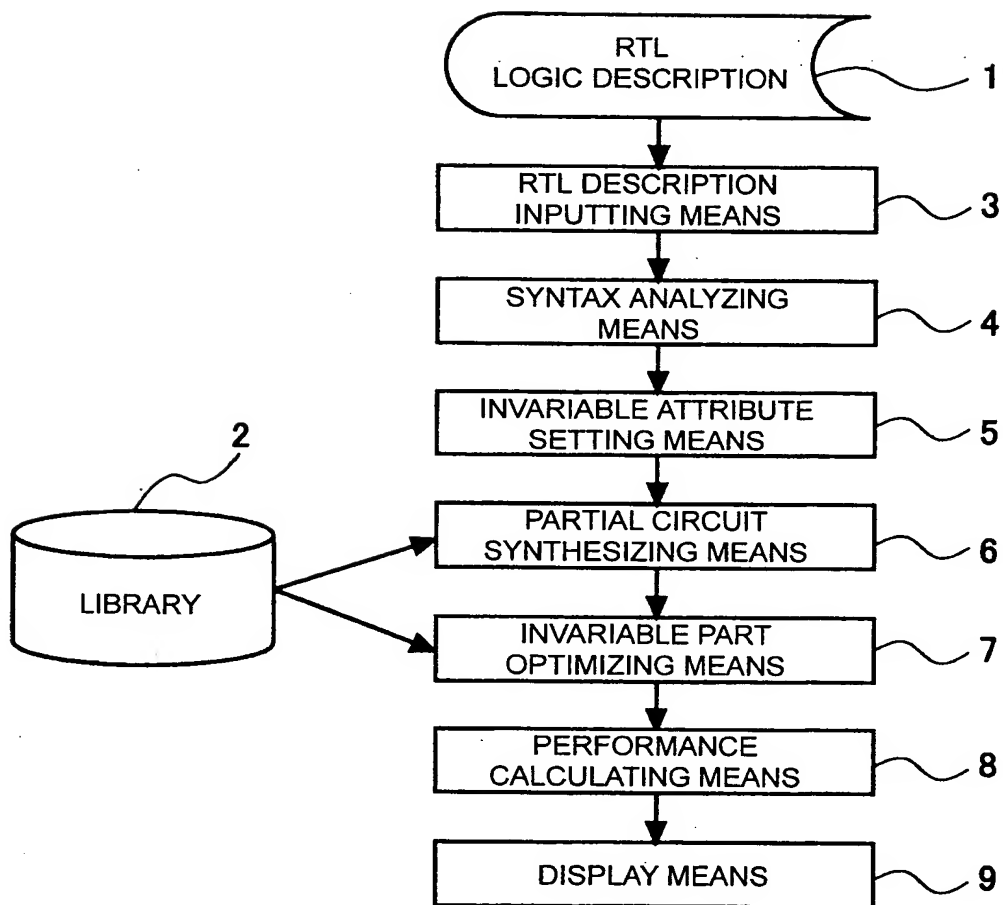


FIG. 2A

```

wire [7:0] A,B,Y;
wire sel;
...
assign Y = (sel==1'b1)?A+B:A;

```

FIG. 2B

signal	file	line
A[7:0]	design1.v	50
B[7:0]	design1.v	60
Y[7:0]	design1.v	70
sel	design1.v	65

FIG. 2C

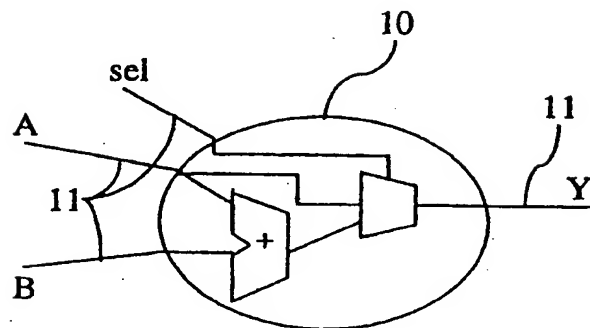


FIG. 3

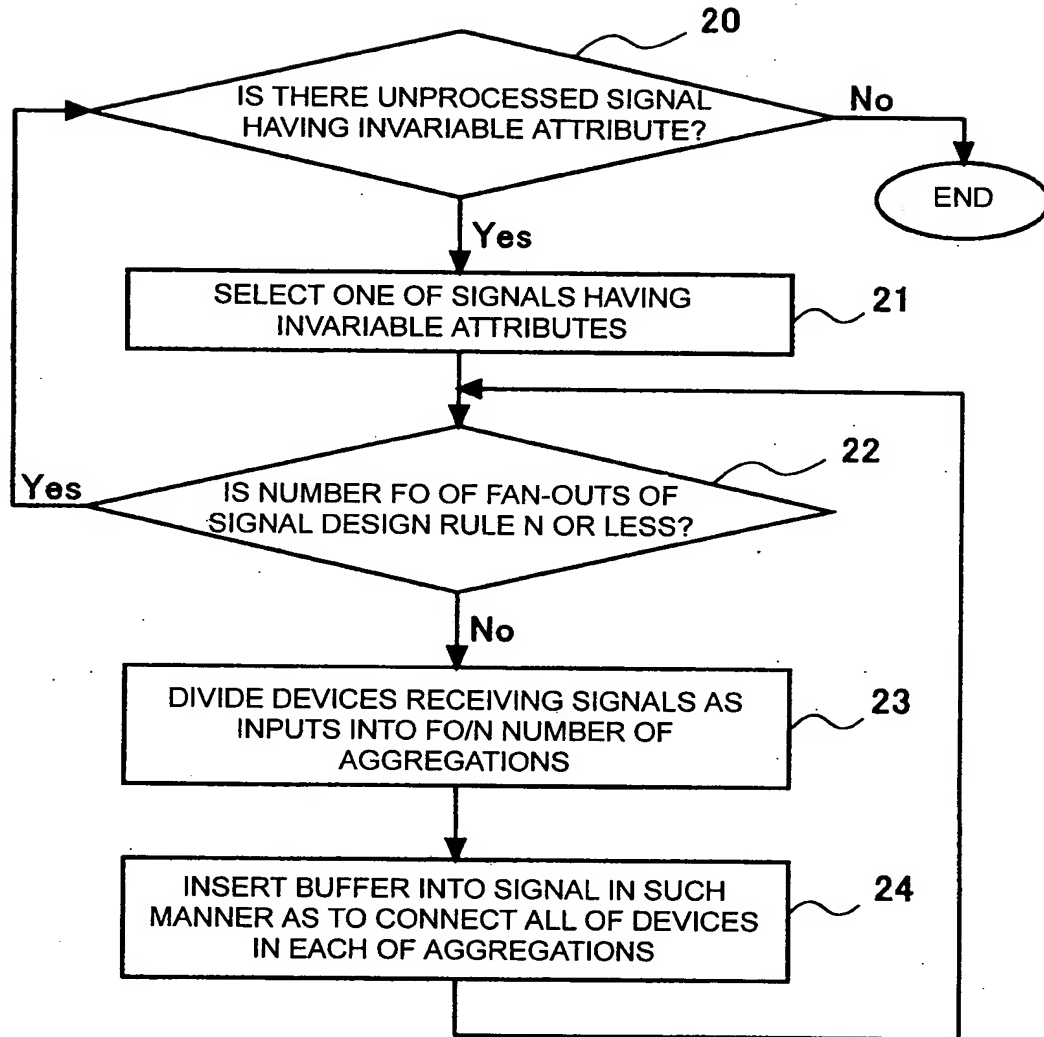


FIG. 4A

Module xxx
Area: 10000
Max Delay 10.5

FIG. 4B

from	to	delay
block1/reg_a	block2/reg_b	9.4
block2/reg_b	block2/reg_c	5.6
block2/reg_c	block3/reg_d	10.4

FIG. 4C

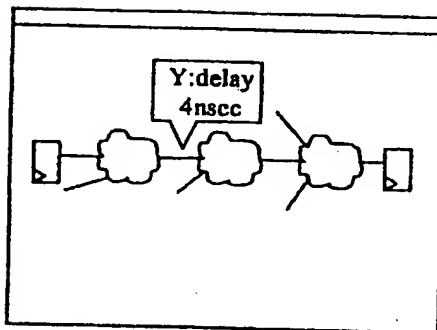


FIG. 4D

```

always @(A or B or C or D) begin
  if (D==1'b0) begin
    Y=A + B;
  end
  else begin
    Y=A + C;
  end
end
end
  
```

FIG. 5A

```

always@(A or B or C or D) begin
  if (D==1'b0) begin
    Y=A + B;
  end
  else begin
    Y=A + C;
  end
end

```

FIG. 5B

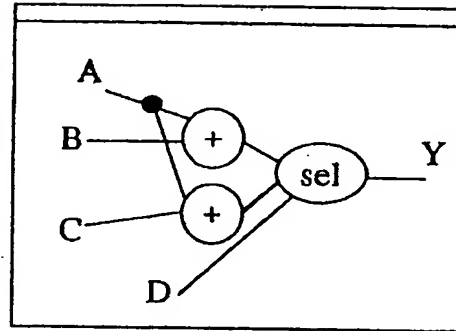


FIG. 5C

Signal	arrival
A	3.5
B	2.6
C	2.8
D	2.0
Y	9.6

FIG. 5D

Signal	arrival
A	3.5
B	2.6
C	2.8
D	4.0
Y	9.6

FIG. 6A

```

always@(A or B or C or D) begin
  if (D==1'b0) begin
    Z=B;
  end
  else begin
    Z=C;
  end
  Y=A+Z;
end

```

FIG. 6B

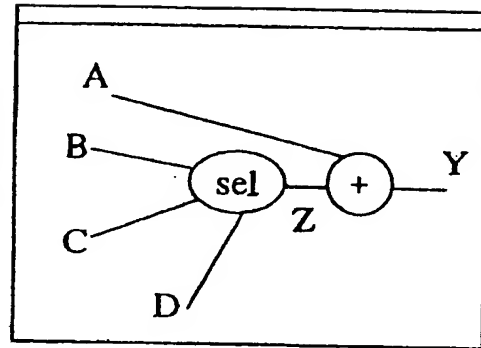


FIG. 6C

Signal	arrival
A	3.5
B	2.6
C	2.8
D	2.0
Y	8.9

FIG. 6D

Signal	arrival
A	3.5
B	2.6
C	2.8
D	4.0
Y	10.1

FIG. 7

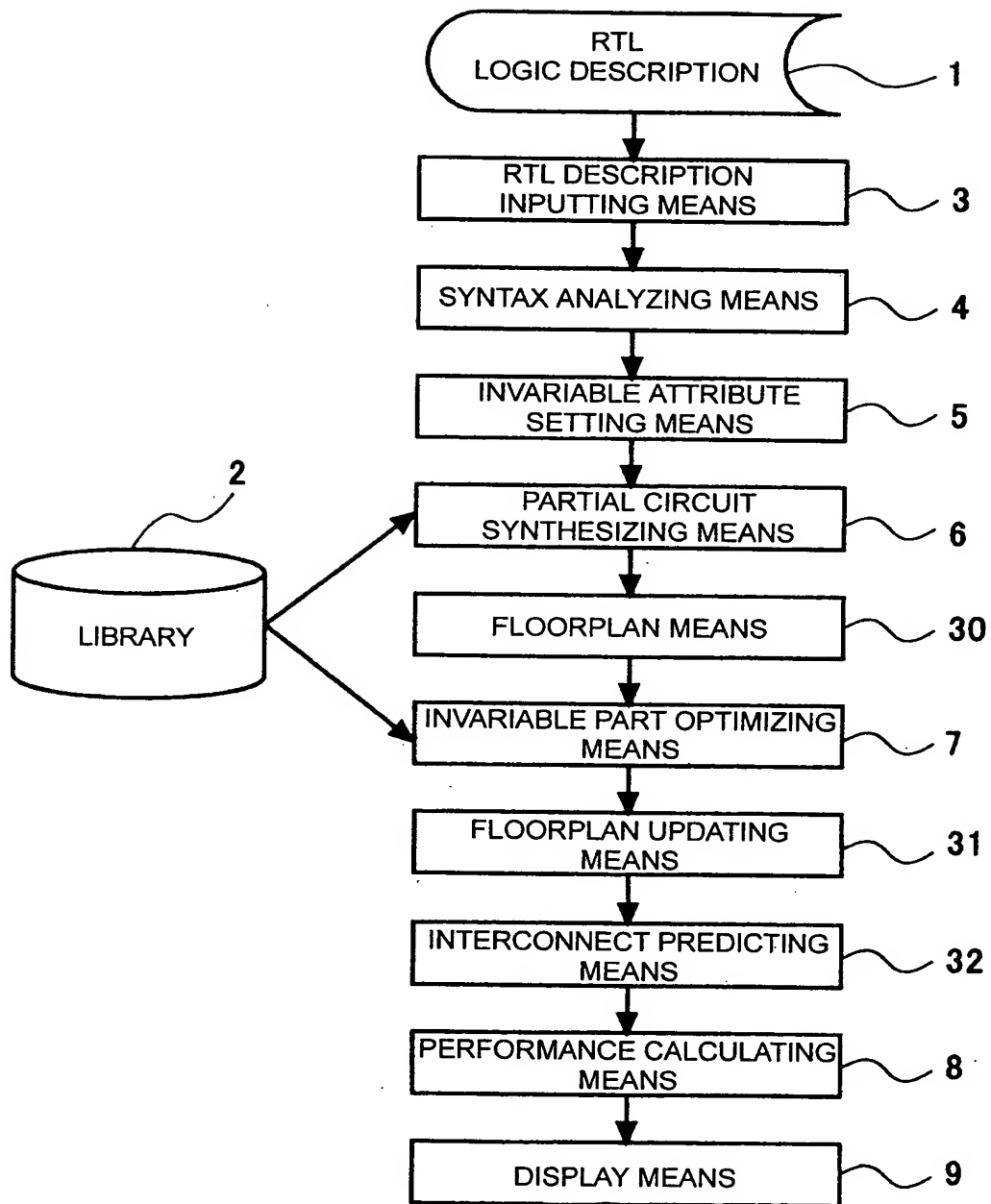


FIG. 8

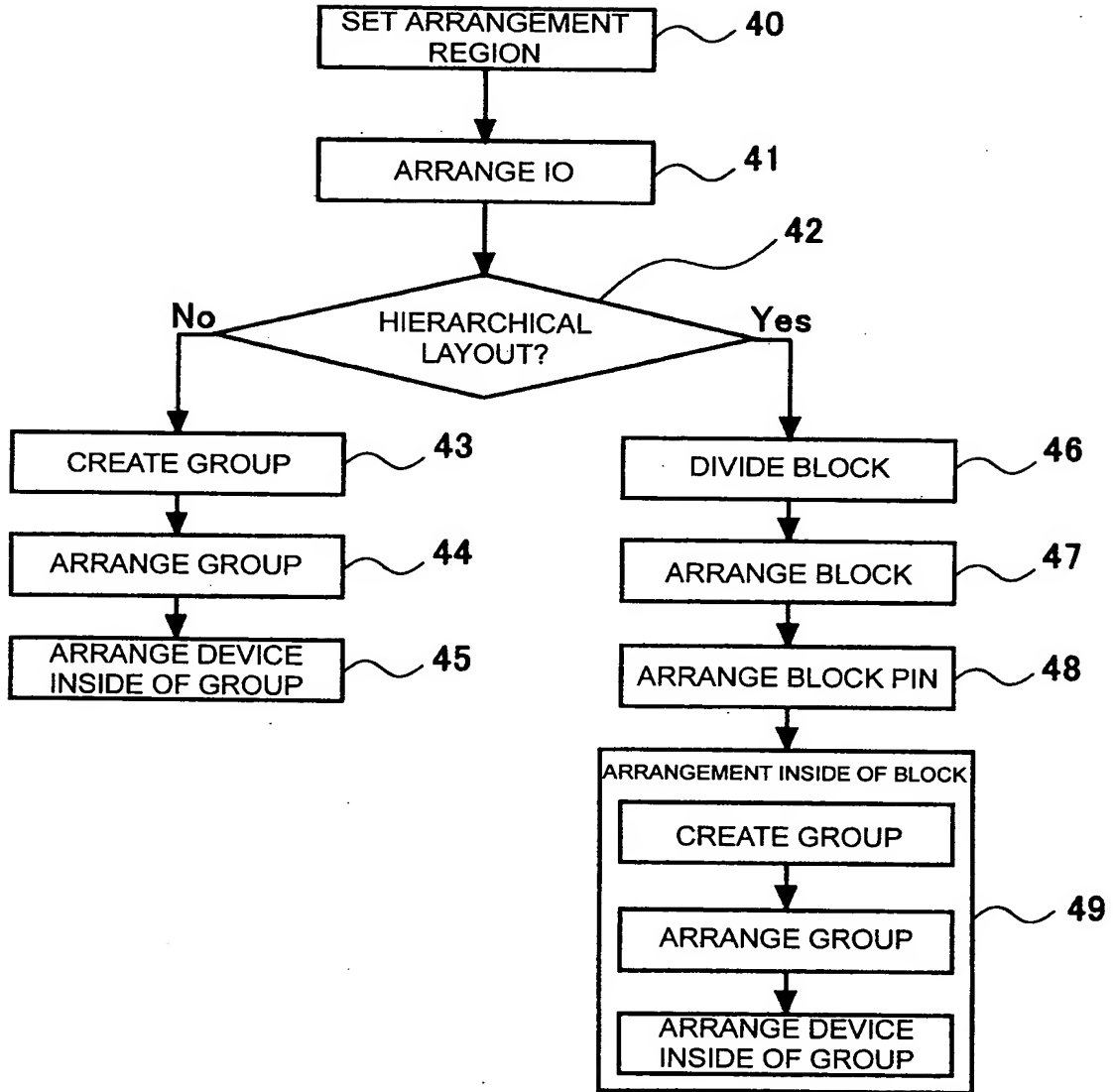


FIG. 9

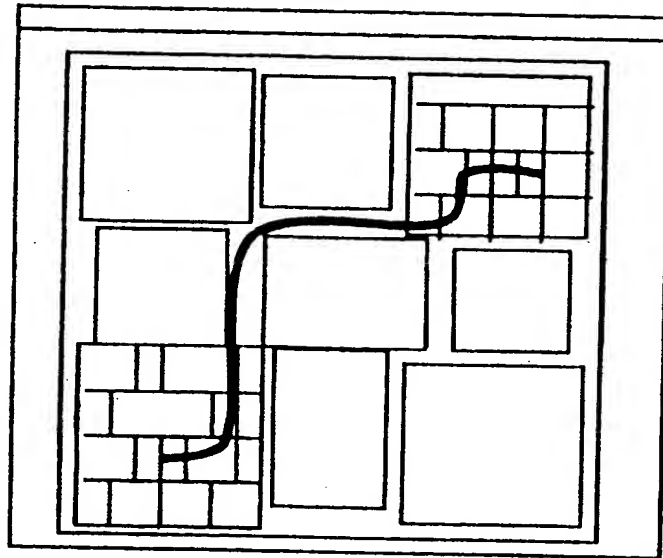


FIG. 10

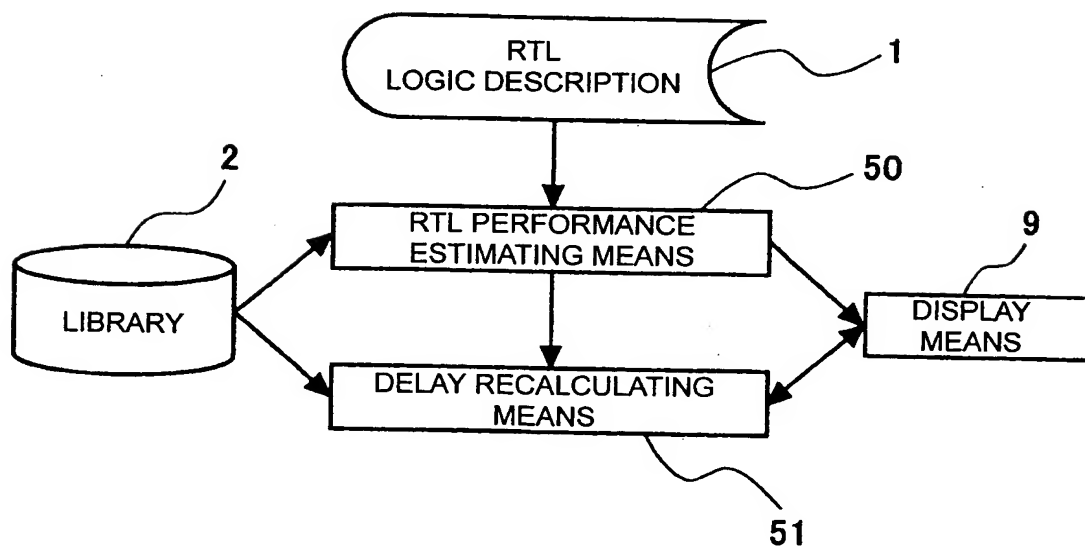


FIG. 11A

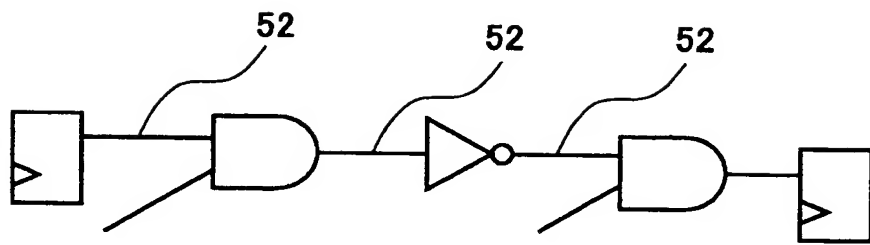


FIG. 11B

